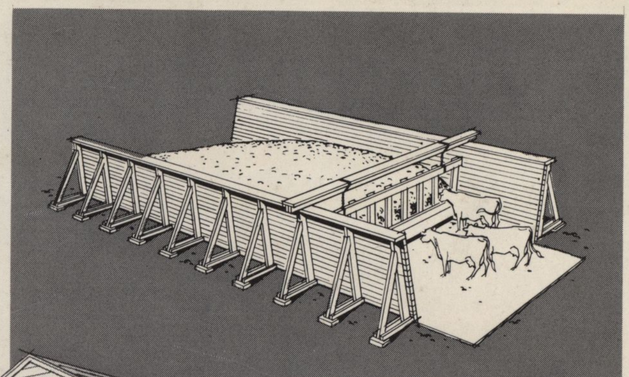
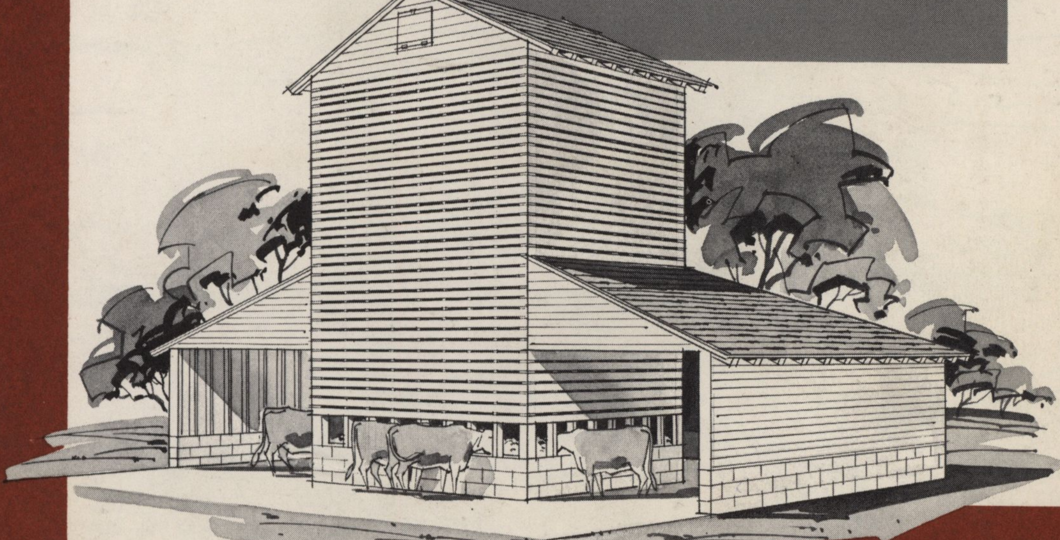
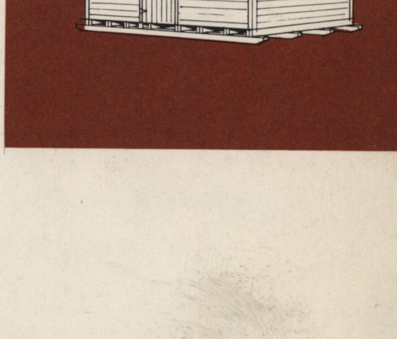
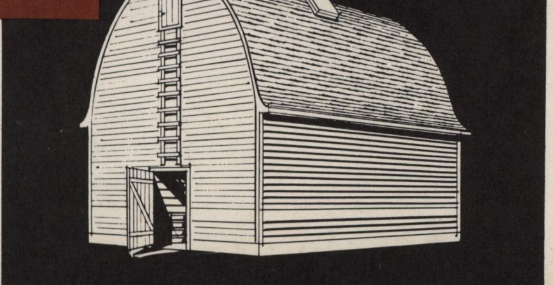
Crop Storage

BUILDINGS





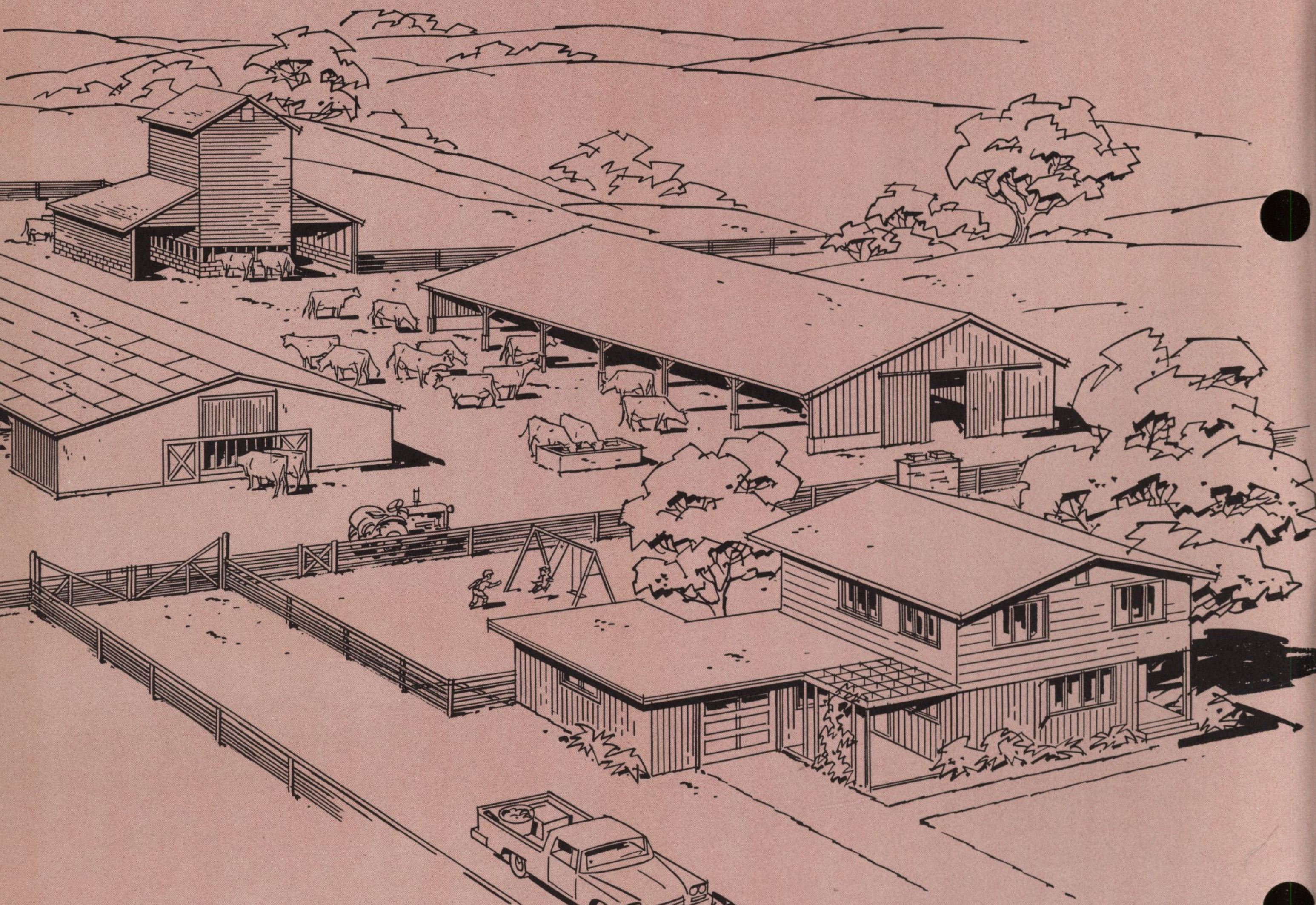




ENGINEERED BY

Weyerhaeuser

Crop



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● Weyerhaeuser 4-Square Farm Designs are especially developed (1) to meet today's farming needs; (2) for proper and profitable housing of livestock; (3) to provide structural stability and exceptional durability; and (4) to take maximum advantage of the fact that lumber produced in Weyerhaeuser sawmills is manufactured in uniform lengths and sizes, with ends and edges already squared, which eliminates needless sawing, fitting, and material waste. In planning any new farm building, you'll find a Weyerhaeuser 4-Square Farm Design gives you unmatched advantages in design, durability, adaptability, economy and simplicity of construction—as well as in appearance.

Storage Buildings

THESE TAILOR-MADE DESIGNS MEET THE NEEDS OF TODAY—AND TOMORROW!

Weyerhaeuser 4-Square Crop Storage Buildings are designed to fit in well with your existing farm buildings . . . be flexible enough to meet current *and future* needs . . . and combine low first cost with low maintenance cost. Some of the buildings you'll see here are new, some are old favorites. In every case, they have been carefully reviewed against current farm practice to make sure they will work well for you with today's farming methods. In the case of the larger buildings, consideration is also given to their adaptability to other uses and to expansion. Because of this, you can be sure of both a durable building and a continuously useful building. Special attention is also given to the details of each building to provide maximum protection against loss from rodents, birds, and poultry; vandalism, reduced quality, wind and weather damage. Ventilation needs for the different types of buildings are carefully planned. Walls and floors are carefully engineered to take the heavy pressures of loads of grain.

● ***Plans, specifications, and material lists for these and many other farm buildings available at your lumber dealer . . .***

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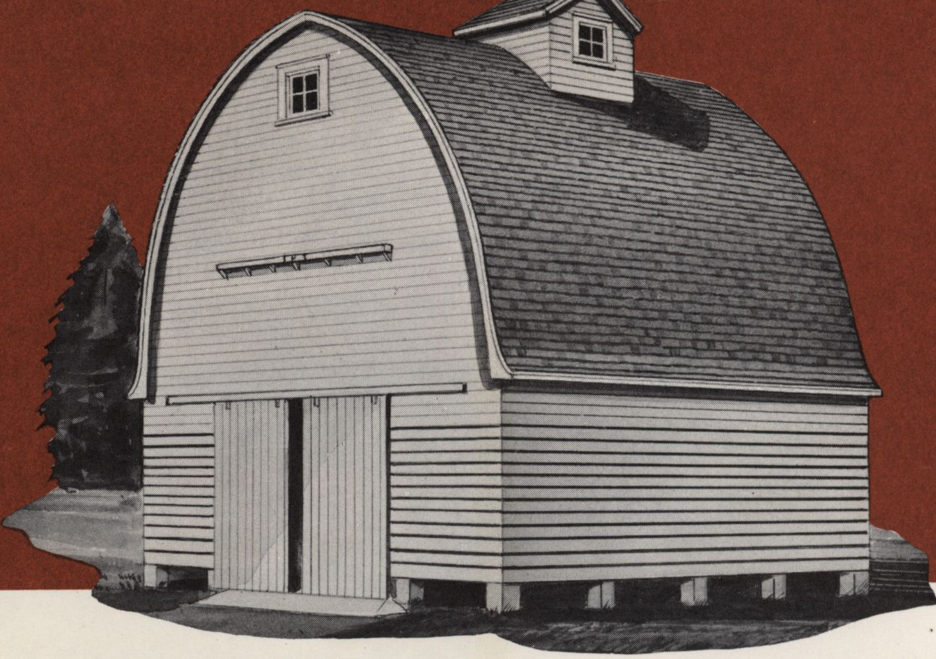
LUMBER DEALER

For Plans and Material Lists

Your local Weyerhaeuser 4-Square Lumber Dealer will be glad to go over blueprints and material lists with you, answer any questions you may have, and help you plan a building program that will fit in with your farm operation.

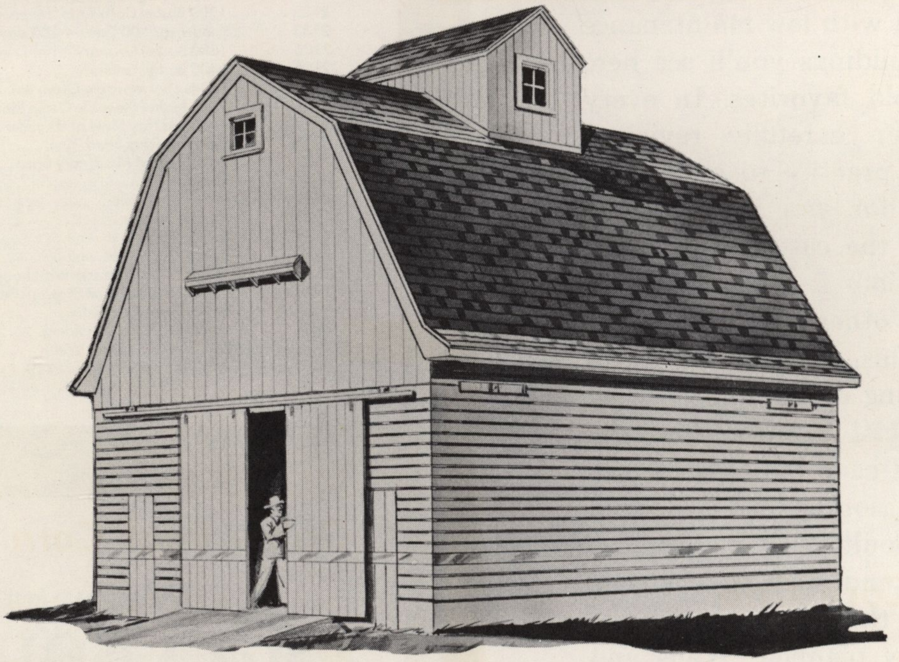


ARCHED ROOF CORN CRIB and GRANARY

NO. 2101-A, B

Size: 27′ x 32′ x 36′
Capacity: 4,400 bu. ear corn, 2,600 bu. small grain
Cribs: 8′ wide
Alley 11′ wide, 12′ high

This sturdy, arched roof storage building is well engineered throughout, from foundation to the ridge of the wind-resistant roof. Air circulation for natural drying is complete, thorough and efficient. Cribs are 8′ wide with standard beveled cribbing. Plans show wood or concrete floor construction. Foundations and footings are shown for five types of soils. Wood floors are built on piers with wood girders and joists. Concrete floor has shelling trench. Design No. 2101b is similar in appearance but differs in arch construction.

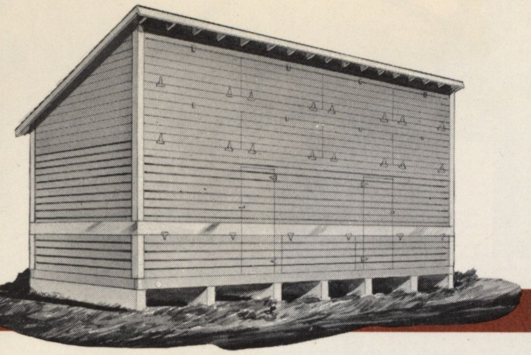


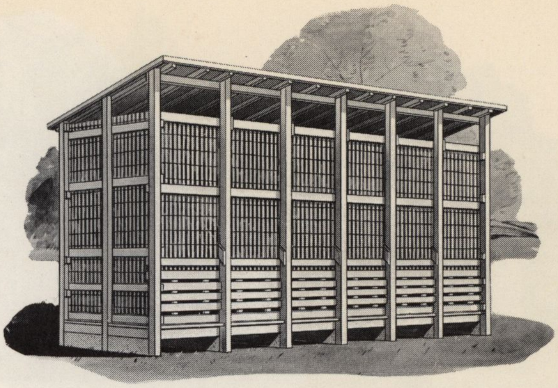
GAMBREL ROOF CORN CRIB and GRANARY

NO. 2110

Capacity: 4,550 bu. ear corn, 2,740 bu. small grain
Size: 29′ x 36′
Cribs: 8′ wide
Alley 13′ wide, 11′-6″ high

This improved bin and crib has exceptional strength and increased capacity. Gambrel roof offers maximum capacity giving extra bushels of storage per dollar cost. Table in construction drawings shows correct size of foundation walls and footings in five types of soil. Wood or concrete floor can be used. Wood floor provides a strong crib as the studs are lapped and bolted to the floor joists—thus tying the framing members together to resist the outward thrust of the corn. Wood floor is placed 20″ above ground.





NO. 2104

1000 Bushel Corn Crib

Size: 8′ x 32′
Additional lengths in units of 5′-3″

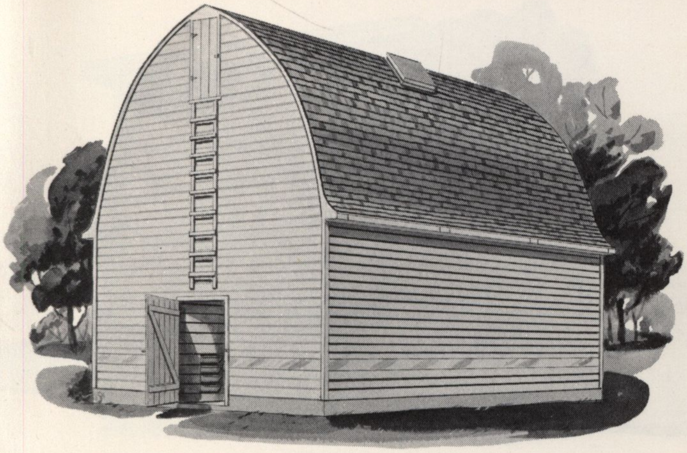
● An excellent building for the proper drying and protection of ear corn, this crib is also unique in its foundation structure. It is built on short cross piers—spaced 5′-3″ on centers. This reduces the amount of concrete up to 12½% and supports the load more uniformly to eliminate uneven settlement. Joists are laid the long way, with flooring laid crosswise. Each 32′ structure has 3 shelling doors and 2 access doors at bottom. A double row of filling doors runs the entire length of the crib. It is rat proofed with shields and metal strip.

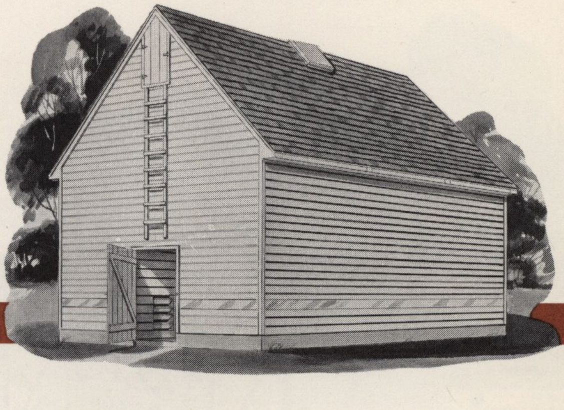
NO. 2113

1000 Bushel Post-Type Corn Crib

Size: 8′ x 30′

● Strongly constructed in every respect, this crib will withstand loads and pressures of stored corn and resist strong winds and heavy snow loads. Each post is cross-braced for great stability. Walls are of wood with wire fencing which provides a well-ventilated economical siding. Removable unloading doors run the entire length of the crib. Roof hatches provide convenient filling. The crib has a capacity of 33 bushels of ear corn per linear foot. It is extensible in five foot units.





NO. 2118

Arched Roof Corn Crib

Size: 20′ x 36′
Capacity: 4,400 Bu. ear corn

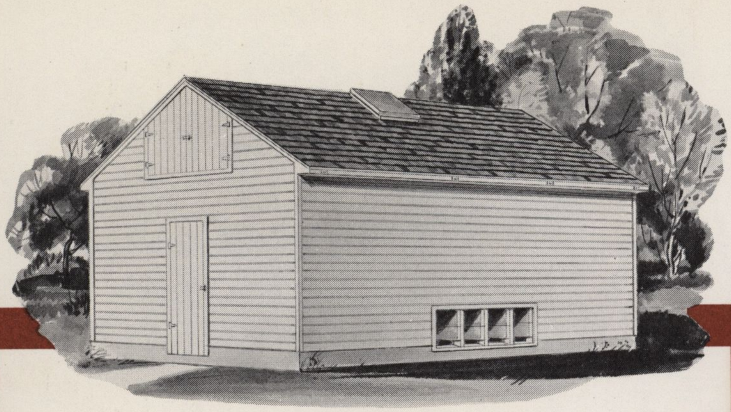
● Here is a structurally sound, easy to build crib that adapts to either natural or artificial drying of corn. End walls of weather-tight siding assure better and more uniform drying. Unique construction with partitions diagonally sheathed eliminates cross bracing. Glued laminated wood arches are anchored securely to foundation and tied at the ridge. Crib is filled through roof hatch. An access door and walkway over corn are provided. Reinforced concrete floor slopes to drains in outside wall.

NO. 2119

Gable Roof Corn Crib

Size: 20′ x 36′
Capacity: 4,300 Bu. ear corn

● Featuring gable roof construction, this crib is very similar in utility to No. 2118. It has a 4′ unloading passage down the center, with three 8′ x 12′ sections on each side. These sections are brace-free to assure more uniform drying. The construction is strong throughout and rigid corner bracing is provided. Metal strips and hardware cloth protect against rat loss. The crib is filled through roof hatch opening. An access door and walkway over corn are provided.

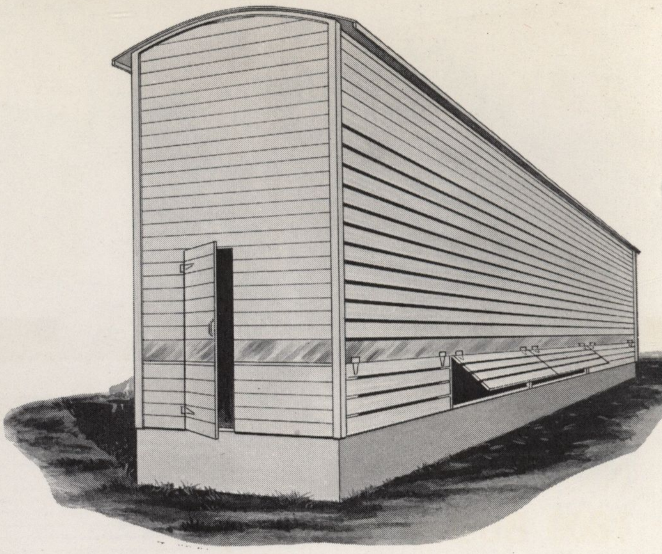


NO. 2120

Crop Drying Building

Size: 20′ x 28′
Height: 8′ floor to eave

● Artificial crop drying is efficiently accomplished in this specially designed and engineered building. Hay, ear corn and small grain can be dried with either heated or unheated air. Dryer forces air through slotted floor up through the crop, carrying moisture out vent doors in gable. Uniform depth of crop assures uniform moisture content after drying cycle. Roof hatch and conveyor space permit mechanical loading and unloading. Double wall is specified for extra strength. Blueprints contain easy-to-read three-dimensional drawings which help reduce construction time and save material.

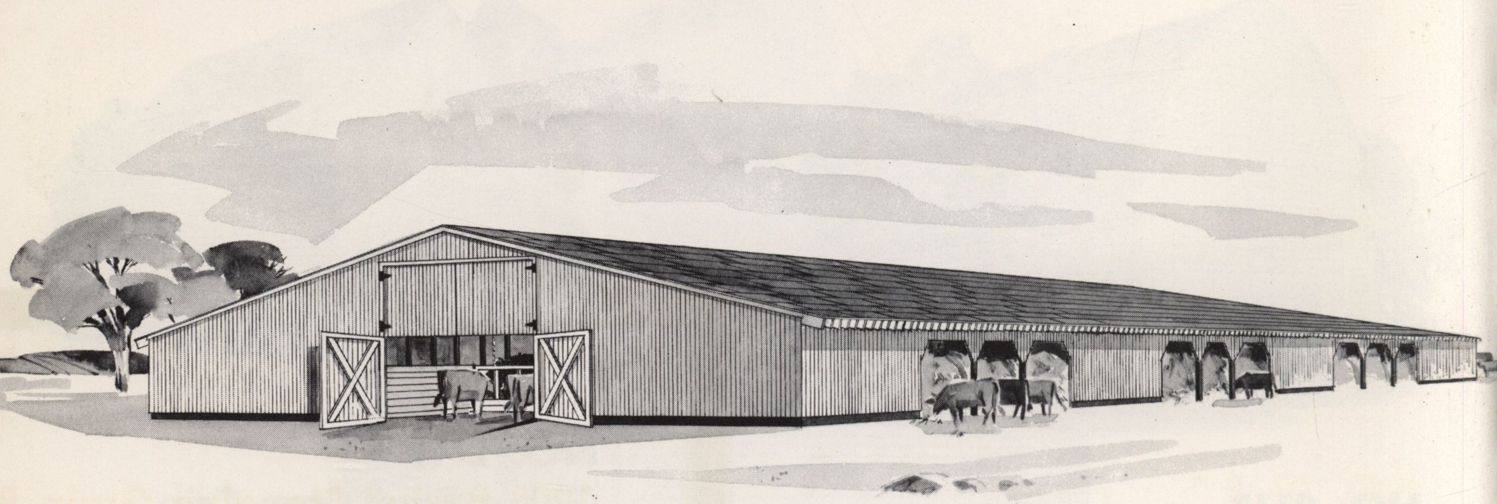


NO. 2128

1200 Bushel Corn Crib

Size: 8′ x 32′

● Intended to match existing arch-roofed farm buildings, this 1200 bushel crib incorporates an economical, bent-board roof. A solid partition at mid-point eliminates interior cross-bracing and allows drying of smaller amounts. Plans permit eventual use of corn drying equipment. Hatch doors in the roof, hinged emptying doors at bottom and service doors at one end are convenient features. Metal stripping above emptying doors provides rat protection. Crib is strongly reinforced to resist outward pressures that exist with ear corn storage.



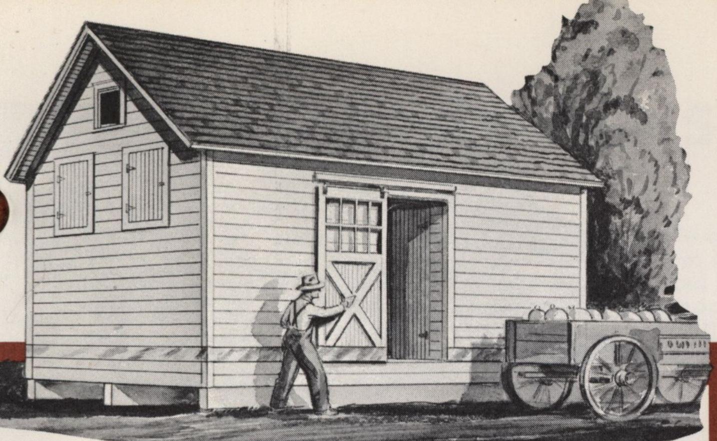
NO. 2133

FEEDER FOR 100 COWS . . . 200 DAYS

Size: 74′ x 272′

● This labor-saving building provides self-feeding of silage and hay for 100 cows for 200 days! Hay storage space on both sides. Silo lining is pressure treated for longer life. Double end doors provide easy access to the whole interior, permit the building to double as a machinery storage shed. Plans are engineered for *tapered timber construction which features the big open interior spaces of pole construction with the added advantage of the timbers having wide, flat nailing surfaces for sound construction. Plywood roof also speeds construction. For economical first cost and low maintenance cost, build this practical bunker silo.

*Where tapered timbers are not available, standard timbers or poles may be substituted.



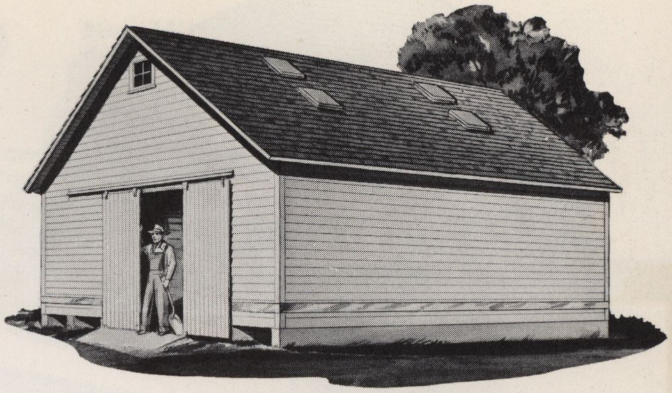
NO. 2106

1800 Bushel Granary

Size: 14′ x 24′

● This 4-bin granary has an outside filling door for each bin and scoop doors opening onto a 6′ alleyway. This can be used as a seed cleaning space or for the storage of approximately 700 additional bushels. Windows are tip-in type at each gable end and there is a window in the alley door for additional light. The granary is weather tight and permits easy fumigation.

Three continuous foundation walls, 8″ thick and extending below frost line, carry the loads. The structure is strong and rigid to withstand pressure of stored grain. The floor joists are tied to the wall studs, thus making a strong structural unit.

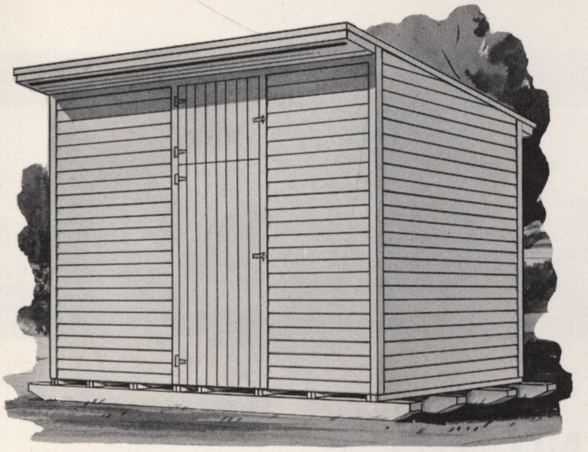


NO. 2105

6400 Bushel Granary

Size: 31′ x 32′

● Six bins in this granary make it especially useful. There are four 10′ x 16′ bins on the ground floor and two 11′ x 16′ bins above the central 11′ driveway. Bins may be filled to the roof through weather-proof hatches, thus giving full use of storage space. Scoop doors and gravity spouts make emptying easy. Foundation wall 8″ thick reaches below frost line and will support fully loaded granary. Wood or concrete floor. Corners tied securely by diagonal bracing at plate line. Bin walls serve as cross ties. This granary is rat proofed with shields and metal stripping. It is tightly constructed to allow for fumigation.

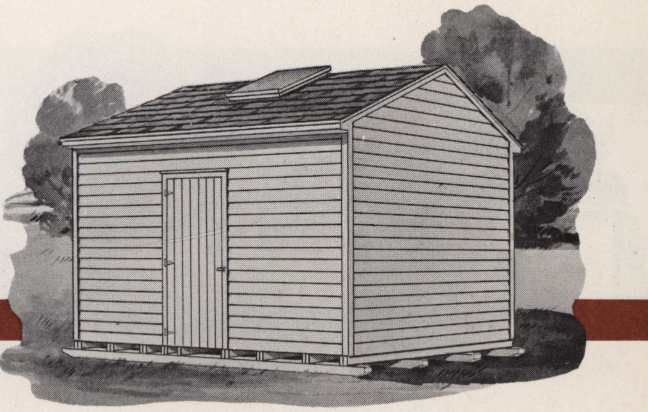


NO. 2115

750 Bu. Movable Grain Bin

Size: 10′ x 12′

● The simple shed-roof construction of this movable bin provides economical construction. Framing members for the walls are selected for strength, and they are joined and braced to withstand side pressures. Studs are bolted to floor joists to withstand outward pressures of the grain. The wall covering is ½″ x 6″ bevel siding applied over building paper and diagonal sheathing. This double wall construction reduces grain loss. Blueprints show how several of these units can be placed together to gain greater storage capacity. This bin is constructed on 4″ x 6″ skids for ease in moving.

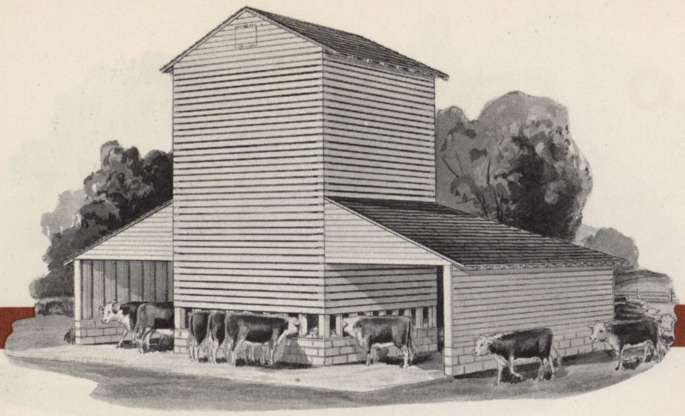


NO. 2116

1000 Bushel Movable Grain Bin

Size: 12′ x 14′

● Mounted on treated skids, this bin can be moved by tractor or truck and is strongly built to resist grain pressures. Diagonal sheathing is used to provide a rigid framework. Covering the sheathing is building paper and ½″ x 6″ bevel siding. The double wall protects against grain loss. Floor joists are bolted to the studs for greater resistance to grain pressures. Upper ends of the studs are securely fastened to ties and double plates. A roof hatch is provided for easy filling and a scoop bin permits the removal of small samples of grain.

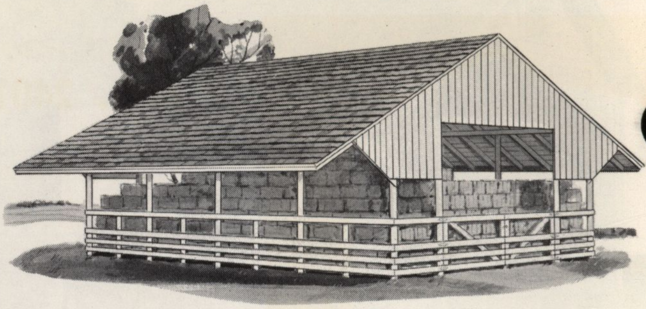


NO. 2117

Chopped Hay Shed and Feeder

Size: Hay Shed: 16′ x 16′
Covered Feeding Area: 12′ wide, 3 sides

With a greater feeding yield from cut and stored hay, plus the advantages of self-feeding, this hay shed and feeder soon pays for itself. The hay shed will hold approximately 30 tons of chopped hay. Slatted sides and a center flue provide adequate ventilation. Covered feeding areas 12′ wide on 3 sides provide for year-round housing of cattle. The concrete floor makes cleaning easy. Concrete feeding wall reduces waste.

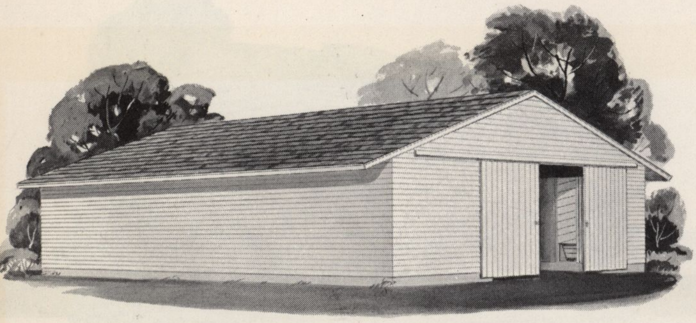


NO. 2121

Pole-Type Hay Shed

Size: 27′ x 40′
Capacity: 80 tons of baled hay

Free of posts and easy to build this economical, umbrella type structure provides a lot of shelter for each building dollar. Its covered storage space will accommodate 80 tons of baled hay. The more than 100 linear feet of feeding fence is protected by a broad roof overhang. Can also be used for machinery storage. The 12′ x 14′ gable end openings provide convenient access and "drive-through" features. End-gates swing open. Open sides allow access for elevator along entire length.

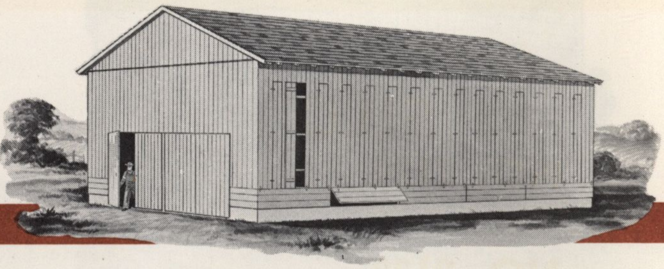


NO. 2122

Granary and Machinery Shed

Size: 46′ x 60′
Capacity: 11,500 Bushels
Machinery Storage: 1,320 Square Feet
Variable in 12′ Bin Units

This double-duty building was designed to provide safe, on-the-farm storage for both grain and machinery. It is soundly engineered to resist load pressures. All filling and unloading of bins is done from the inside, under cover. Even when grain cannot be unloaded immediately, it can be left under cover. Along each side of the storage area are 10 grain storage bins, approximately 12′ x 10′. Down the center is a machinery storage area 22′ x 60′ and 12′ high. Large 18′ x 12′ sliding doors.

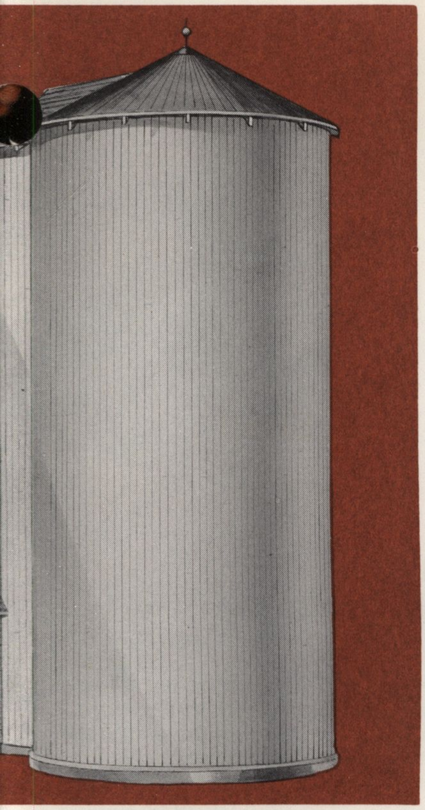


NO. 2125

Tobacco Barn

Size: 31′ x 60′

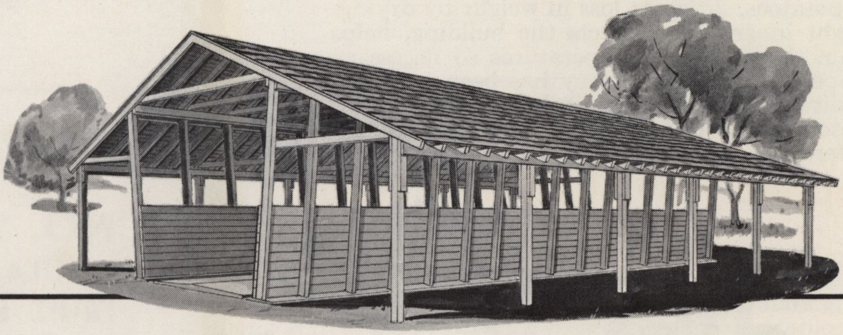
The needs of the tobacco farmer have been closely followed in this well-designed barn. Long narrow doors permit the farmer to open up 40% of the wall to permit air passage. Both side walls have continuous horizontal vent doors. In addition there are large doors at each end. Pole spacing is 4½′ apart to permit drying of larger leaf tobacco. The design permits use of artificial heat in drying. Side girts are spaced to provide protection of outside tiers of tobacco leaves. Capacity is 2 to 3 acres per 12′ bent. Building length can vary to suit acreage requirements.



WOOD HOOP SILO
NO. 2401

Size: 14′ x 30′
Capacity: approximately 92 tons

This economical silo is not harmed by the actions of silage acids . . . it is low in original costs and easy to construct. The glued laminated wood hoops can be built on the job without using clamps. Require no adjustment after erection. Firmly anchored foundation, silo is designed to withstand violent wind loads without guy wires. Filling door in roof.



HORIZONTAL SILO
NO. 2123

Size: 20′ x 60′
Capacity: 125 tons of silage

High utility value and low cost feature this silo. Pressure-treated posts, are firmly anchored at floor line and roof to resist horizontal pressures. Side walls are pressure-treated end-matched Douglas Fir. To reduce labor, a movable silage feeding fence can be used. Open livestock shed at side of silo can be incorporated at time of original construction . . . or erected later as an addition.

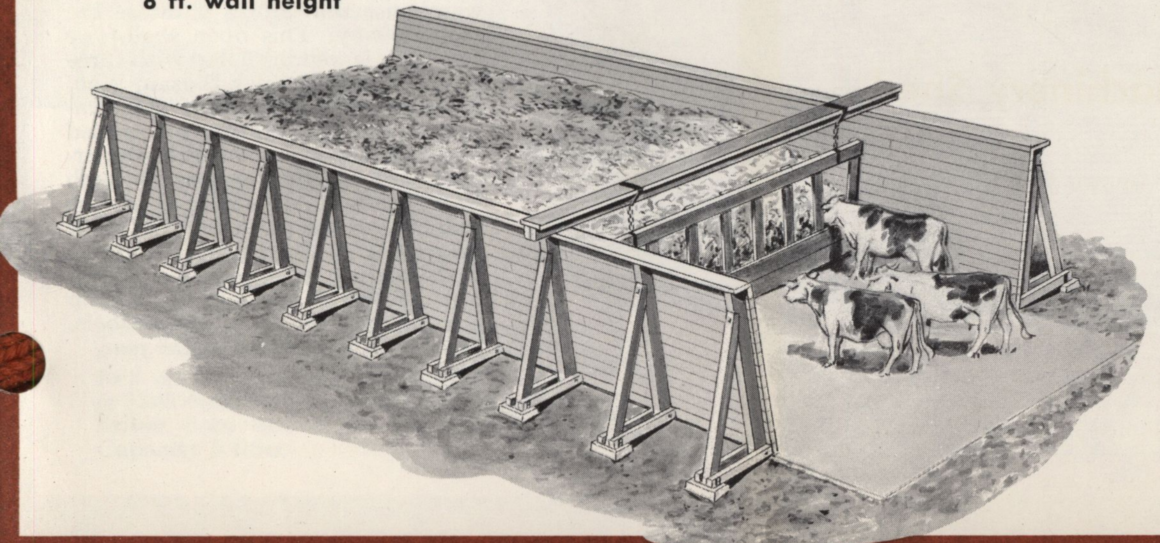
BUNKER SILO
NO. 2129

6 ft. wall height

NO. 2130

8 ft. wall height

As farmers looked for different ways to save labor in feeding cattle, one of the principal structures which proved effective was the bunker silo. These designs have been planned to meet a variety of herd sizes and farm conditions. In both of these silos, a feeding fence permits feeding of silage with minimum of labor. Table shown on plans provides information which tells widths and lengths of silo to build depending on number of cows in herd and amount and types of silage fed each day. Lengths may vary in 6′ multiples.

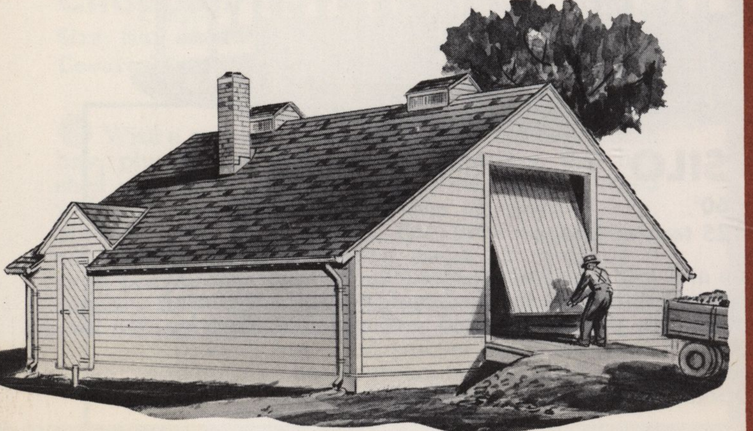


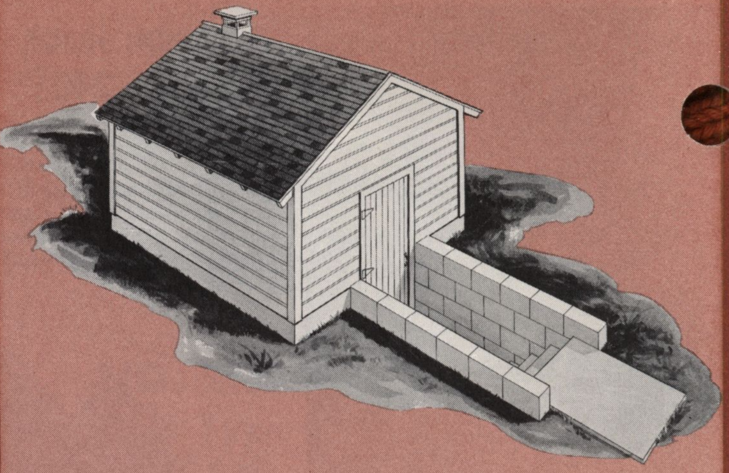
NO. 2310

WHITE POTATO STORAGE WAREHOUSE

Size: 32′ x 32′
Length Variable
Capacity: 2300 Bushels for each 8′ unit of building length

This warehouse has excellent vapor-tight construction. Air moves up through the stored potatoes, rises to the top and then passes down between the outer and inner walls. Air movement keeps moisture in the potatoes, prevents loss in weight by drying. The tight inner wall protects the building, helps maintain the constant temperatures so necessary for proper storage. A chimney has been provided for additional heat should it be required. Roof ventilators speed up cooling. Plans show arched roof alternate.



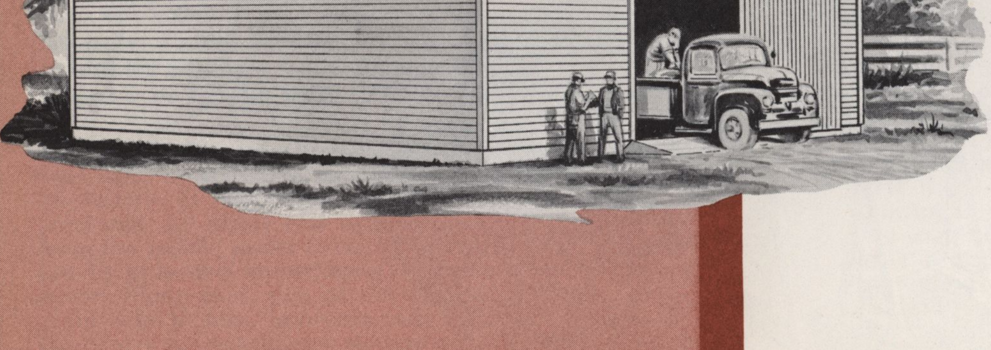


NO. 2126

INSULATED SMALL FRUIT STORAGE BUILDING

Size: 12′ x 12′

Designed for storage of farm consumer crops and fruits, this useful building provides more uniform temperatures. Wall above grade is well insulated with two layers of double-thick Balsam-Wool. Vapor barrier eliminates condensation within the wall itself. Ventilation is provided through small hinged, insulated opening in service door and through exhaust opening at roof peak. Lining stems from floor to ceiling for easy cleaning.

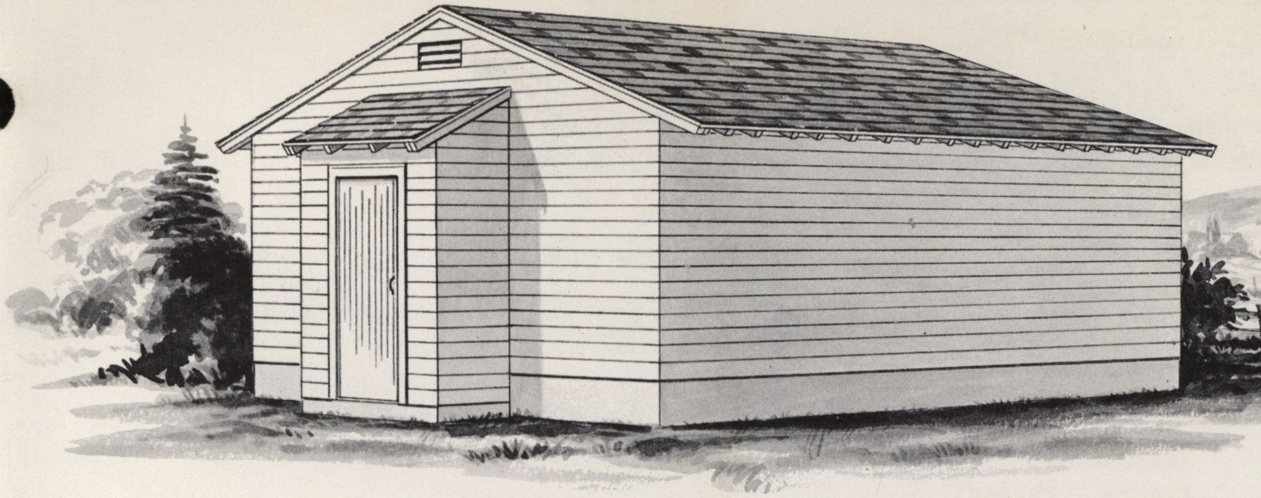


NO. 2124

POTATO STORAGE BUILDING

Size: 42′ x 42′

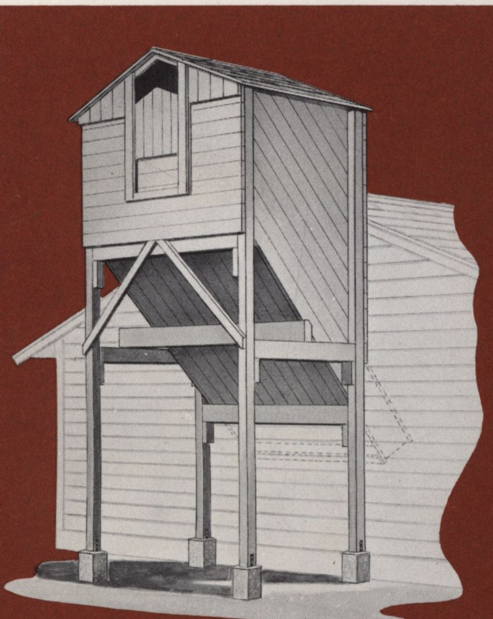
Here is a large, well-designed warehouse that stores potatoes the modern way. This open shell-type structure is well insulated with three layers of double-thick Balsam Wool in walls and eight inches of fill insulation in ceiling. Potatoes are cooled as fan-driven air moves around perimeter of building and up through wall openings. Air is released at the ceiling over the potatoes. The large door (10½′ x 12′) permits driving in with loading and handling equipment. Filled to capacity of 10′ deep the building stores 11,200 bushels. Fan house is provided at the rear.

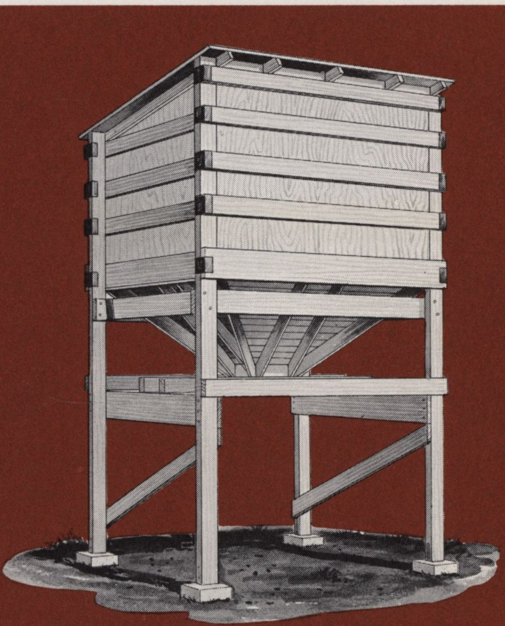


NO. 2127
COMMON STORAGE BUILDING

Size: 18′ x 24′

Storage of 2,000 bushels is provided in this mechanically ventilated structure. Air enters through a duct at one end of the building, passes down along slatted floor, up through the stored vegetables and out an exhaust opening at the other end. The floor is constructed with 4′ x 8′ sections of spaced boards, removable for cleaning. A vestibule at one end of the structure with double doors prevents air leakage. Either bulk or crated type produce may be stored.





NO. 2131
BULK FEED BIN (PLANK WALL)

Size: 6′ x 14′

This bulk feed bin offers versatile storage. It can be used separately or located so as to discharge into an adjacent building. The spout may be arranged to empty into the hopper of an automatic feeder. Or it may be directed to go into a feed cart to suit any feeding operation. The bin is filled directly from a bulk feed truck. The truck driver does not enter the livestock building. Capacity 5 tons.

NO. 2132
BULK FEED BIN (PLYWOOD WALL)

Hopper: 7′ x 8′ x 8′-6″ deep

When feed is delivered in bulk, this plan provides feed holding space at or near the point of use. The bulk truck delivers direct to the bin—little labor is required of the farm operator. Feed can be elevated to the bin and carried by “gravity flow” to automatic feeder or to a truck or trailer for hauling to the point of use. A series of these bins holding corn, oats, grain sorghum, or concentrates may be used to feed the mill and reduce labor.

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